WHAT IS CLAIMED IS:

1	1. A hybrid circuit comprising
2	a substrate;
3	interconnects on said substrate;
4	a first IC die with electrical functionality, said first IC die being attached to
5	said substrate and having input and output signal leads connected to the said interconnects via
6	bonding mechanisms; and
7	programmable logic on said IC die, said programmable logic operative to
8	intercept selected ones of communication signals between said IC die and said substrate.
1	2. The hybrid circuit according to claim 1 wherein said substrate includes
2	active devices.
1	3. The hybrid circuit according to claim 2 wherein said substrate includes
2	programmable logic.
1	4. The hybrid circuit according to claim 3 wherein said programmable logic is
2	disposed to intercept said interconnects.
1	5. The hybrid circuit according to claim 1 wherein said programmable logic is
2	in response to external control signals applied to said programmable logic; and
3	said control signals are operative to modify electrical functionality and
4	connectivity of inputs and outputs connected to said programmable logic.
1	6. The hybrid circuit according to claim 1 further including redundant inputs
2	and outputs on the same IC die.
1	7. The hybrid circuit according to claim 1 wherein said IC die contains at least
2	two electrical functional units; and wherein
3	said programmable logic is operative to select one of the two electrical
4	functional units for connection to external outputs of the die under the control of control
5	signals.
1	8. The hybrid circuit according to claim 7 wherein said two functional electric
2	functional units are substantially identical in functionality.

1	9. The hybrid circuit according to claim 8 wherein said substrate includes
2	active circuitry.
1	10. The hybrid circuit according to claim 7 wherein power control is provided
2	which is operative to switch off power supply to a single one of said electrical functional
3	units.
1	11. The hybrid circuit according to claim 7 wherein said substrate further
2	includes active circuitry.
1	12. The hybrid circuit according to claim 7 wherein said control circuit is
2	operative to selectively cut off clock input to at least one said electrical functional unit.
1	13. A hybrid circuit comprising:
2	a substrate;
3	interconnects on said substrate;
4	an IC die on said substrate, said IC die having at least two functional units and
5	control logic connected to output terminals of said functional units and connected to
6	input/output terminals of said IC die; and
7	said control logic being operative to connect outputs of one selected functional
8	unit to selected input/output terminals of the IC die.
1	14 The hybrid circuit according to claim 13 wherein said two functional units
2	are of identical functionality.
1	15. An integrated circuit (IC) die for use in a hybrid circuit, said IC
2	comprising:
3	first and second functional electrical units;
4	multiplexer circuits connected to outputs of said first and second functional
5	units and to input/output terminals the IC die; and
6	a control logic capable of connecting outputs of a selected functional unit to
7	selected input/output ports of the IC die.
1	16. The integrated circuit according to claim 15 wherein said first and second
2	functional units are of identical functionality.

1	17. A hybrid circuit comprising.
2	a substrate;
3	interconnects on said substrate in form of wire bonds or solder balls;
4	an IC die with electrical functionality, said IC die being attached to said
5	substrate and having input and output signals connected to the said interconnects;
6	programmable logic on said substrate;
7	said programmable logic being operative to intercept input (output) signals to
8	said IC die.
1	18. A method for routing signals within a hybrid circuit on a substrate, said
2	substrate having interconnects on said substrate, an IC die with electrical functionality, said
3	first IC die being attached to said substrate and having input and output signal leads
4	connected to the said interconnects via bonding mechanisms, and programmable logic on said
5	IC die, the method comprising:
6	intercepting via said interconnects all communication signals between said IC
7	die and said substrate; and
8	switching via said programmable logic between individual ones of said
9	interconnects.
1	19. A method for routing signals within a hybrid circuit on a substrate, said
2	substrate having interconnects on said substrate, a first IC die with electrical functionality,
3	said first IC die being attached to said substrate and having input and output signal leads
4	connected to the said interconnects via bonding mechanisms, a second IC die with
5	electrical functionality, said second IC die being attached to said substrate and having input
6	and output signal leads connected to the said interconnects via bonding mechanisms, and
7	programmable logic on said IC die, the method comprising:
8	intercepting via said interconnects selected communication signals between
9	said first IC die and said substrate; and
10	switching signal lines via said programmable logic between first IC die and
11	said second IC die.